

GenCore version 5.1.4 p5\_4578  
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## OM protein - nucleic search, using frame\_plus.p2n model

Run on: March 15, 2003, 23:25:27 ; Search time 23.3444 Seconds  
(without alignments)  
2525.515 Million cell updates/sec

Title: US-08-978-217-7

Perfect score: 445  
Sequence: 1 NCALEBLRVGLGDLHA.....ELLDGQASPHGSCGAG 84

## Scoring table:

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Xgapop 10.0	Xgapex	0.5
Fgapop 6.0	Fgapex	7.0
Delop 6.0	Delext	7.0

Searched: 501302 seqs, 350932545 residues

Total number of hits satisfying chosen parameters: 1002604

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

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-DEV TIMEOUT=120 -WARR TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6  
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

## Database :

Published Applications\_NA:\*

- 1: /cgn2\_6/ptodata/2/pubna/US07\_PUBCOMB.seq:\*
- 2: /cgn2\_6/ptodata/2/pubna/PCT\_NEW\_PUB.seq:\*
- 3: /cgn2\_6/ptodata/2/pubna/US06\_PUB.seq:\*
- 4: /cgn2\_6/ptodata/2/pubna/US06\_PUBCOMB.seq:\*
- 5: /cgn2\_6/ptodata/2/pubna/US07\_NEW\_PUB.seq:\*
- 6: /cgn2\_6/ptodata/2/pubna/PCT05\_PUBCOMB.seq:\*
- 7: /cgn2\_6/ptodata/2/pubna/US08\_NEW\_PUB.seq:\*
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- 9: /cgn2\_6/ptodata/2/pubna/US09\_NEW\_PUB.seq:\*
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- 12: /cgn2\_6/ptodata/2/pubna/US10\_PUBCOMB.seq:\*
- 13: /cgn2\_6/ptodata/2/pubna/US60\_NEW\_PUB.seq:\*
- 14: /cgn2\_6/ptodata/2/pubna/US60\_PUBCOMB.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result	Query	Match Length	ID	Description
1	445 100.0	563 9	US-10-025-380-944	Sequence 944, App
2	445 100.0	563 10	US-09-922-217-944	Sequence 944, App
3	445 100.0	563 10	US-09-833-263-944	Sequence 944, App
4	445 100.0	626 9	US-10-025-380-853	Sequence 853, App

C 5	445 100.0	626 10	US-09-922-217-853	Sequence 853, App
C 6	445 100.0	626 10	US-09-833-263-853	Sequence 853, App
7	445 100.0	1915 10	US-09-964-824A-101	Sequence 101, App
8	445 100.0	1915 10	US-09-964-824A-563	Sequence 563, App
9	445 100.0	1915 10	US-09-880-107-3420	Sequence 3420, App
10	445 100.0	1915 10	US-09-967-768A-192	Sequence 192, App
11	445 100.0	1917 9	US-10-025-380-1105	Sequence 1105, App
12	445 100.0	1917 10	US-09-922-217-1105	Sequence 1105, App
13	445 100.0	1996 10	US-09-925-701-207	Sequence 207, App
14	439 98.7	355 10	US-09-867-701-4818	Sequence 4818, App
15	305 68.5	174 10	US-09-998-598-1740	Sequence 1740, App
16	111 24.9	437 10	US-09-998-598-2216	Sequence 2216, App
17	72 16.2	353 10	US-09-864-761-3195	Sequence 3195, App
18	72 16.2	398 9	US-09-854-133-697	Sequence 697, App
19	72 16.2	521 10	US-09-884-441-139	Sequence 139, App
20	72 16.2	551 10	US-09-884-441-92	Sequence 92, App
21	72 16.2	555 10	US-09-884-441-107	Sequence 107, App
22	72 16.2	2110 10	US-09-925-302-234	Sequence 234, App
23	67.5 15.2	432 9	US-10-032-159A-5	Sequence 5, App1
24	67.5 15.2	942 10	US-09-815-242-7916	Sequence 7916, App
25	67.5 15.2	1101 9	US-10-032-159A-1	Sequence 1, App1
26	67.5 15.2	2176 9	US-09-764-869-1782	Sequence 1782, App
27	67 15.1	6257 10	US-09-764-869-1782	Sequence 1782, App
28	66.5 14.9	1247 10	US-09-880-107-3874	Sequence 3874, App
29	66.5 14.9	1320 9	US-10-098-841-53	Sequence 33, App1
30	66 14.8	1423 9	US-10-116-252-3	Sequence 39, App1
31	66 14.8	1594 10	US-09-826-508-39	Sequence 3, App1
32	65.5 14.7	111282 12	US-10-094-464A-202	Sequence 202, App
33	65 14.6	661 9	US-10-101-464A-202	Sequence 152, App
34	64.5 14.5	1326 12	US-10-007-693-152	Sequence 464, App
35	64.5 14.5	2184 10	US-09-764-887-464	Sequence 15667, App
36	64 14.4	480 10	US-09-864-761-15667	Sequence 163, App
37	64 14.4	643 10	US-09-920-100A-163	Sequence 270, App
38	64 14.4	643 12	US-10-033-528-163	Sequence 14090, App
39	64 14.4	998 9	US-10-098-861-270	Sequence 4795, App
40	64 14.4	1961 10	US-09-864-761-14090	Sequence 30648, App
41	64 14.4	1986 10	US-09-864-761-4795	Sequence 21534, App
42	64 14.4	2334 10	US-09-864-761-30648	Sequence 2993, App
43	64 14.4	2351 10	US-09-864-761-21534	Sequence 1, App1
44	64 14.4	3591 9	US-09-738-626-2993	
45	64 14.4	3309400 9	US-09-738-626-1	

## ALIGNMENTS

RESULT 1  
US-10-025-380-944/c  
; Sequence 944, Application US/10025380  
; Publication No. US20020182191A1  
; GENERAL INFORMATION:  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Secrist, Heather  
; APPLICANT: Benson, Darin R.  
; APPLICANT: Meagher, Madeleine Joy  
; APPLICANT: Stolk, John A.  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Jiang, Yuguang  
; APPLICANT: Smith, Carole L.  
; APPLICANT: King, Gordon E.  
; APPLICANT: Wang, Aijun  
; APPLICANT: Clapper, Jonathan D.  
; APPLICANT: Skeiky, Yasir A. W.  
; APPLICANT: Fanger, Gary R.  
; APPLICANT: Vedvick, Thomas S.  
; APPLICANT: Carter, Darick  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
; FILE REFERENCE: 210121.471C14  
; CURRENT APPLICATION NUMBER: US/10/025,380  
; NUMBER OF SEQ ID NOS: 1129  
; SOFTWARE: FastSeq for Windows Version 4.0

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; SEQ ID NO 944
; LENGTH: 563
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-025-380-944

Alignment Scores:
Pred. No.: 1.25e-52 Length: 563
Score: 445.00 Matches: 84
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 9 Gaps: 0

US-08-978-217-7 (1-84) x US-10-025-380-944 (1-563)
QY 1 AAGCYSALALEGUGLULeuAArgLeuValPheGIYProLeuGIYAArgINLeuHIAIA 20
Db 472 AATGTGGCCTTTGAGGAGACTGGTGTGGTCTTTGGGCTCTGGGGGACCAATCATGCC 413
QY 21 GINLeuAIGAAPLeuThSerSerSerSerSerAPGILeUSeRTPrIleIIeGIuLeu 40
Db 412 CAGCTGCAGAGACTCTCACTCTTCAGCTCTTGATGAGCTCACTTGAGATTCAGACTGCTG 353
QY 41 GILuYASAPGILmeRTAlaPheGIuGINuAlaLeuAPProGIYProPheAPGInGIYSer 60
Db 352 GAGAAAGATGGCATGGCTCTCCAGAGAGCCCTAGACCCAGGGCCCTTTGACAGGGAGC 293
QY 61 ProPheAIGInGIuLeuLeuAPAPAPGILyGINuAlaSerProTYHISProGIYSer 80
Db 292 CCCTTTGCCAGAGACTCTCTGGACGACGGTCAGCAAGCCACCCCTACACCCCGGAGC 233
QY 81 CysGIYAlaGIY 84
Db 232 TGTGGCGCAGGA 221

RESULT 2
US-09-922-217-944/c
; Sequence 944, Application US/09922217
; Patent No. US20020076414A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Lodes, Michael J.
; APPLICANT: Secrist, Heather
; APPLICANT: Benson, Darin R.
; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Stolk, John A.
; APPLICANT: Wang, Tongtong
; APPLICANT: Jiang, Yugu
; APPLICANT: Smith, Carole Lynn
; APPLICANT: King, Gordon E.
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; TITLE OF INVENTION: OF COLOM CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.471C13
; CURRENT APPLICATION NUMBER: US/09/922.217
; NUMBER OF SEQ ID NOS: 1124
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 944
; LENGTH: 563
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-922-217-944

Alignment Scores:
Pred. No.: 1.25e-52 Length: 563
Score: 445.00 Matches: 84
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 10 Gaps: 0

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Db      472  AATTGTGCCCCCTTAGAGAGCGCTCTGTGCTCTTTGGGCGCTTGGGGAGCAACTCCATGCC 413

OY      21  GlnLeuArgAspLeuThrSerSerSerSerAspGluLeuSerTrpIleIleGluLeuLeu 40
Db      412  CAGCTGGCAAGCCTCACTTCCAGCTCTTCTGATGAGCTCAGTTGGATCATTTGAGCTGTG 353

OY      41  GluIysAspGlyMetAlaPheGlnGluAlaLeuAspProGlyProPheAspGlnIysSer 60
Db      352  GAGAAAGATGCAATGGCTTCCAGAGAGCCCTTAGAACCCAGGGGCCCTTTGACAGAGGACGC 293

OY      61  ProPheAlaGlnGluLeuLeuAspAspGlyGlnGlnAlaSerProTyrHisProGlySer 80
Db      292  CCGTTTCCCGAGAGGCTGTGACGACGGTCAAGCAAGCCAGCCCTTACCAACCCCGGACGC 233

OY      81  CysGlyAlaGly 84
Db      232  TGTGGCCAGGA 221

RESULT 3
US-09-833-263-944/c
; Sequence 944, Application US/09833263
; Patent No. US20020110547A1
GENERAL INFORMATION:
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; APPLICANT: Stolk, John A.
; APPLICANT: Meagher, Madeleine J.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF COLON CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121, 471C12
; CURRENT APPLICATION NUMBER: US/09/833,263
; CURRENT FILING DATE: 2001-04-10
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 944
; LENGTH: 563
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-833-263-944

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Score:          445.00      Matches:      84
Percent Similarity: 100.00%      Conservative: 0
Best Local Similarity: 100.00%      Mismatches: 0
Query Match:      100.00%      Indels:      0
DB:              10      Gaps:      0

US-08-978-217-7 (1-84) x US-09-833-263-944 (1-563)

OY      1  AencCysAlaLeuGluGluLeuArgLeuValPheGlyProLeuGlyAspGlnLeuHisAla 20
Db      472  AATTGTGCCCCCTTAGAGAGCGCTCTGTGCTCTTTGGGCGCTTGGGGAGCAACTCCATGCC 413

OY      21  GlnLeuArgAspLeuThrSerSerSerSerAspGluLeuSerTrpIleIleGluLeuLeu 40
Db      412  CAGCTGGCAAGCCTCACTTCCAGCTCTTCTGATGAGCTCAGTTGGATCATTTGAGCTGTG 353

OY      41  GluIysAspGlyMetAlaPheGlnGluAlaLeuAspProGlyProPheAspGlnIysSer 60
Db      352  GAGAAAGATGCAATGGCTTCCAGAGAGCCCTTAGAACCCAGGGGCCCTTTGACAGAGGACGC 293

OY      61  ProPheAlaGlnGluLeuLeuAspAspGlyGlnGlnAlaSerProTyrHisProGlySer 80
Db      292  CCGTTTCCCGAGAGGCTGTGACGACGGTCAAGCAAGCCAGCCCTTACCAACCCCGGACGC 233

OY      81  CysGlyAlaGly 84
Db      232  TGTGGCCAGGA 221

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Db 232 TGTGGCGCAGGA 221

RESULT 4  
US-10-025-380-853/C  
Sequence 853, Application US/10025380  
Publication No. US20020182191A1  
GENERAL INFORMATION:  
APPLICANT: Xu, Jiangchun  
APPLICANT: Lodes, Michael J.  
APPLICANT: Secretist, Heather  
APPLICANT: Benson, Darin R.  
APPLICANT: Meagher, Madeleine Joy  
APPLICANT: Stoik, John A.  
APPLICANT: Wang, Tongtong  
APPLICANT: Jiang, Yuglu  
APPLICANT: Smith, Carole L.  
APPLICANT: King, Gordon E.  
APPLICANT: Wang, Aijun  
APPLICANT: Clapper, Jonathan D.  
APPLICANT: Skeiky, Yasir A. W.  
APPLICANT: Fanger, Gary R.  
APPLICANT: Vedvick, Thomas S.  
APPLICANT: Carter, Derrick  
TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE  
FILE REFERENCE: 210121.471C14  
CURRENT APPLICATION NUMBER: US/10/025,380  
CURRENT FILING DATE: 2001-12-19  
NUMBER OF SEQ ID NOS: 1129  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 853  
LENGTH: 626  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-10-025-380-853

Alignment Scores:  
Pred. No.: 1.44e-52 Length: 626  
Score: 445.00 Matches: 84  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
Gaps: 0

US-08-978-217-7 (1-84) x US-10-025-380-853 (1-626)

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Qy 21 GlnLeuArgAspLeuThrSerSerSerSerAspGlnLeuSerTrpIleIleGluLeu 40  
Db 411 CAGCTGCAGAGCTCACTCCAGCTCTTGTGATGAGCTGATTGATCACTTGAAGCTGCTG 352

Qy 41 GlnLysAspGlyMetAlaPheGlnGlnLalaLeuAspProGlyProPheAspGlnLys 60  
Db 351 GAGAAAGATGCGATGCTCTTCCAGAGAGGCCCTTTCACAGAGGCGAGC 292

Qy 61 PropheAlaGlnGlnLeuLeuAspAspGlyGlnGlnAlaSerProTyHisProGlySer 80  
Db 291 CCCTTGGCCCGAGAGCTGCTGAGCAGCGGTCAAGACCGCTACACCCCGGCGAGC 232

Qy 81 CysGlyAlaGly 84  
Db 231 TGTGGCGCAGGA 220

RESULT 5  
US-09-922-217-853/C  
Sequence 853, Application US/09922217  
Patent No. US20020076414A1  
GENERAL INFORMATION:  
APPLICANT: Xu, Jiangchun  
APPLICANT: Lodes, Michael J.

APPLICANT: Secretist, Heather  
APPLICANT: Benson, Darin R.  
APPLICANT: Meagher, Madeleine Joy  
APPLICANT: Stoik, John A.  
APPLICANT: Wang, Tongtong  
APPLICANT: Jiang, Yuglu  
APPLICANT: Smith, Carole Lynn  
APPLICANT: King, Gordon E.  
APPLICANT: Wang, Aijun  
APPLICANT: Clapper, Jonathan D.  
TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE  
FILE REFERENCE: 210121.471C13  
CURRENT APPLICATION NUMBER: US/09/922,217  
CURRENT FILING DATE: 2001-08-03  
NUMBER OF SEQ ID NOS: 1124  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 853  
LENGTH: 626  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-922-217-853

Alignment Scores:  
Pred. No.: 1.44e-52 Length: 626  
Score: 445.00 Matches: 84  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
Gaps: 0

US-08-978-217-7 (1-84) x US-09-922-217-853 (1-626)

Qy 1 AsnCysAlaLeuGlnGluLeuArgLeuValPheGlyProLeuGlyAspGlnLeuHisAla 20  
Db 471 AATTGTGCTTGAGAGAGCTGCTGCTTGGGCTTGGGAGACCACTCCATGCG 412

Qy 21 GlnLeuArgAspLeuThrSerSerSerSerAspGlnLeuSerTrpIleIleGluLeu 40  
Db 411 CAGCTGCAGAGCTCACTCCAGAGAGGCCCTTTCACAGAGGCGAGC 352

Qy 41 GlnLysAspGlyMetAlaPheGlnGlnLalaLeuAspProGlyProPheAspGlnLys 60  
Db 351 GAGAAAGATGCGATGCTCTTCCAGAGAGGCCCTTTCACAGAGGCGAGC 292

Qy 61 PropheAlaGlnGlnLeuLeuAspAspGlyGlnGlnAlaSerProTyHisProGlySer 80  
Db 291 CCCTTGGCCCGAGAGCTGCTGAGCAGCGGTCAAGACCGCTACACCCCGGCGAGC 232

Qy 81 CysGlyAlaGly 84  
Db 231 TGTGGCGCAGGA 220

RESULT 6  
US-09-833-263-853/C  
Sequence 853, Application US/09833263  
Patent No. US20020110547A1  
GENERAL INFORMATION:  
APPLICANT: Wang, Aijun  
APPLICANT: Clapper, Jonathan D.  
APPLICANT: Stoik, John A.  
APPLICANT: Meagher, Madeleine J.  
TITLE OF INVENTION: DIAGNOSIS OF COLON CANCER AND METHODS FOR THEIR USE  
TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE  
FILE REFERENCE: 210121.471C12  
CURRENT APPLICATION NUMBER: US/09/833,263  
CURRENT FILING DATE: 2001-04-10  
NUMBER OF SEQ ID NOS: 1093  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 853  
LENGTH: 626  
TYPE: DNA  
ORGANISM: Homo sapien

US-09-833-263-853

Alignment Scores:

Pred. No.:	1,44e-52	Length:	626
Score:	445.00	Matches:	84
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	100.00%	Indels:	0
DB:	10	Gaps:	0

US-08-978-217-7 (1-84) x US-09-833-263-853 (1-626)

QY 1 AasnCyAlaLeuGluGluLeuAArgLeuValPheGlyProLeuGlyAAspGlnLeuHisAla 20  
 DB 471 AATTGGCCCTTAGAGAGCTGCTGTGCTTGTGGCCTCTGGGGAGCCAACTCCATGCC 412

QY 21 GlnLeuAArgAspLeuThrSerSerSerSerAAspGlnLeuSerTrpIleIleGlnLeuLeu 40  
 DB 411 CAGCTCGAGACCTCACTTCCAGCTCTTGTGAGAGCTCAATGATCATTTAGCTGCTG 352

QY 41 GlnLeuAAspGlyWetAlaPheGlnGlnAlaLeuAAspProGlyProPheAAspGlnGlySer 60  
 DB 351 GAGAGAGATGGCTAGCTGCTTCCAGAGGCTTGAACCCAGGGCCCTTTGACCAAGGCGACG 292

QY 61 ProPheAlaGlnGlnLeuLeuAAspAAspGlyGlnGlnAlaSerProGlyrHisProGlySer 80  
 DB 291 CCTTTGGCCAGAGAGCTGCTGAGACGAGCGTCAGCAAGCCAGCCCTTACCAACCCGCGCAGC 232

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 DB 231 TGTGGCGCAGGA 220

RESULT 7  
US-09-964-824A-101

/ Sequence 101, Application US/09964824A  
 / Patent No. US20020102531A1  
 / GENERAL INFORMATION:  
 / APPLICANT: Horrigan, Stephen  
 / TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu  
 / TITLE OF INVENTION: Sets  
 / FILE REFERENCE: 689290-73  
 / CURRENT APPLICATION NUMBER: US/09/964,824A  
 / CURRENT FILING DATE: 2001-09-27  
 / PRIOR APPLICATION NUMBER: US/60/236,033  
 / PRIOR FILING DATE: 2000-09-28  
 / PRIOR APPLICATION NUMBER: US/60/236,032  
 / PRIOR FILING DATE: 2000-09-28  
 / PRIOR APPLICATION NUMBER: US/60/236,028  
 / PRIOR FILING DATE: 2000-09-28  
 / NUMBER OF SEQ ID NOS: 583  
 / SOFTWARE: PatentIn version 3.0  
 / SEQ ID NO 101  
 / LENGTH: 1915  
 / TYPE: DNA  
 / ORGANISM: Homo sapiens  
 / US-09-964-824A-101

Alignment Scores:

Pred. No.:	6,41e-52	Length:	1915
Score:	445.00	Matches:	84
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	100.00%	Indels:	0
DB:	10	Gaps:	0

US-08-978-217-7 (1-84) x US-09-964-824A-101 (1-1915)

QY 1 AasnCyAlaLeuGluGluLeuAArgLeuValPheGlyProLeuGlyAAspGlnLeuHisAla 20  
 DB 429 AATTGGCCCTTAGAGAGCTGCTGTGCTTGTGGCCTCTGGGGAGCCAACTCCATGCC 488

QY 21 GlnLeuAArgAspLeuThrSerSerSerSerAAspGlnLeuSerTrpIleIleGlnLeuLeu 40  
 DB 411 CAGCTCGAGACCTCACTTCCAGCTCTTGTGAGAGCTCAATGATCATTTAGCTGCTG 352

DB 489 CAGCTCGAGACCTCACTTCCAGCTCTTGTGATGAGCTCAATGATCATTTAGCTGCTG 548

QY 41 GlnLeuAAspGlyWetAlaPheGlnGlnAlaLeuAAspProGlyProPheAAspGlnGlySer 60

DB 549 GAGAGAGATGGCTAGCTGCTTCCAGAGGCTTGAACCCAGGGCCCTTTGACCAAGGCGACG 608

QY 61 ProPheAlaGlnGlnLeuLeuAAspAAspGlyGlnGlnAlaSerProGlyrHisProGlySer 80

DB 609 CCTTTGGCCAGAGAGCTGCTGAGACGAGTCAGCAAGCCAGCCCTTACCAACCCGCGCAGC 668

QY 81 CySGlyAlaGly 84

DB 669 TGTGGCGCAGGA 680

RESULT 8  
US-09-964-824A-563

/ Sequence 563, Application US/09964824A  
 / Patent No. US20020102531A1  
 / GENERAL INFORMATION:  
 / APPLICANT: Horrigan, Stephen  
 / TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu  
 / TITLE OF INVENTION: Sets  
 / FILE REFERENCE: 689290-73  
 / CURRENT APPLICATION NUMBER: US/09/964,824A  
 / CURRENT FILING DATE: 2001-09-27  
 / PRIOR APPLICATION NUMBER: US/60/236,033  
 / PRIOR FILING DATE: 2000-09-28  
 / PRIOR APPLICATION NUMBER: US/60/236,032  
 / PRIOR FILING DATE: 2000-09-28  
 / PRIOR APPLICATION NUMBER: US/60/236,028  
 / PRIOR FILING DATE: 2000-09-28  
 / NUMBER OF SEQ ID NOS: 583  
 / SOFTWARE: PatentIn version 3.0  
 / SEQ ID NO 563  
 / LENGTH: 1915  
 / TYPE: DNA  
 / ORGANISM: Homo sapiens  
 / US-09-964-824A-563

Alignment Scores:

Pred. No.:	6,41e-52	Length:	1915
Score:	445.00	Matches:	84
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	100.00%	Indels:	0
DB:	10	Gaps:	0

US-08-978-217-7 (1-84) x US-09-964-824A-563 (1-1915)

QY 1 AasnCyAlaLeuGluGluLeuAArgLeuValPheGlyProLeuGlyAAspGlnLeuHisAla 20  
 DB 429 AATTGGCCCTTAGAGAGCTGCTGTGCTTGTGGCCTCTGGGGAGCCAACTCCATGCC 488

QY 21 GlnLeuAArgAspLeuThrSerSerSerSerAAspGlnLeuSerTrpIleIleGlnLeuLeu 40  
 DB 489 CAGCTCGAGACCTCACTTCCAGCTCTTGTGAGAGCTCAATGATCATTTAGCTGCTG 548

QY 41 GlnLeuAAspGlyWetAlaPheGlnGlnAlaLeuAAspProGlyProPheAAspGlnGlySer 60  
 DB 549 GAGAGAGATGGCTAGCTGCTTCCAGAGGCTTGAACCCAGGGCCCTTTGACCAAGGCGACG 608

QY 61 ProPheAlaGlnGlnLeuLeuAAspAAspGlyGlnGlnAlaSerProGlyrHisProGlySer 80  
 DB 609 CCTTTGGCCAGAGAGCTGCTGAGACGAGTCAGCAAGCCAGCCCTTACCAACCCGCGCAGC 668

QY 81 CySGlyAlaGly 84  
 DB 669 TGTGGCGCAGGA 680

RESULT 9  
US-09-880-107-3420  
 / Sequence 3420, Application US/09880107  
 / Patent No. US20020142981A1

```
GENERAL INFORMATION:
APPLICANT: Horne, Darci T.
APPLICANT: Vockley, Joseph G.
APPLICANT: Scherf, Iwe
APPLICANT: Gene Logic, Inc.
TITLE OF INVENTION: Gene Expression Profiles in Liver Cancer
FILE REFERENCE: 44921-5028-WO
CURRENT APPLICATION NUMBER: US/09/880,107
CURRENT FILING DATE: 2001-06-14
PRIOR APPLICATION NUMBER: US 60/211,379
PRIOR FILING DATE: 2000-06-14
PRIOR APPLICATION NUMBER: US 60/237,054
PRIOR FILING DATE: 2000-10-02
NUMBER OF SEQ ID NOS: 3950
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 3420
LENGTH: 1915
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
OTHER INFORMATION: Genbank Accession No. US20020142981A1 U73843
US-09-880-107-3420
```

```
Alignment Scores:
Pred. No.: 6,41e-52 Length: 1915
Score: 445.00 Matches: 84
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 10 Gaps: 0
```

US-08-978-217-7 (1-84) x US-09-880-107-3420 (1-1915)

```
Oy 1 AencysalaleuGluGluLeuArgLeuValPheGlyProLeuGlyAspGluLeuHisAla 20
Db 429 AATTGTGCTTGAGAGAGCTGCGTCTTGGCTTGGGCTTGAGGAGCACTCCATGCC 488
Oy 21 GlnLeuArgAspLeuThrSerSerSerSerAspGluLeuSerTrpIleIleGluLeuLeu 40
Db 489 CAGCTGCCAGAGCTCCTCCTCCAGCTCTTGTATGAGCTCAGTTGATCATTTAGGCTGCTG 548
Oy 41 GluLysAspGlyMetAlaPheGlnGluAlaLeuAspProGlyProPheAspGlnGlySer 60
Db 549 GAGAGAGATGGCATGCGCTTCCAGAGAGGCCCTTAGACCCCTTTGACCAAGGCGCAGC 608
Oy 61 ProPheAlaGlnGluLeuLeuAspAspGlyGlnGlnAlaSerProTyrHisProGlySer 80
Db 609 CCCTTGGCCAGAGCTGCTGAGACGAGTCCAGCAAGCCCAACCCCGGCGAGC 668
Oy 81 CysGlyAlaGly 84
Db 669 TGTGGCGCAGGA 680

RESULT 10
US-09-967-768A-192
Sequence 192, Application US/09967768A
Patent No. US2002015087A1
GENERAL INFORMATION:
APPLICANT: Augustus, Meena
TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu
FILE REFERENCE: 689290-72
CURRENT APPLICATION NUMBER: US/09/967,768A
CURRENT FILING DATE: 2001-09-28
PRIOR APPLICATION NUMBER: US/60/236,109
PRIOR FILING DATE: 2000-09-28
PRIOR APPLICATION NUMBER: US/60/236,034
PRIOR FILING DATE: 2000-09-28
PRIOR APPLICATION NUMBER: US/60/236,111
PRIOR FILING DATE: 2000-09-28
NUMBER OF SEQ ID NOS: 325
SOFTWARE: PatentIn version 3.0
SEQ ID NO 192
```

```
LENGTH: 1915
TYPE: DNA
ORGANISM: Homo sapiens
US-09-967-768A-192
```

```
Alignment Scores:
Pred. No.: 6,41e-52 Length: 1915
Score: 445.00 Matches: 84
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 10 Gaps: 0
```

US-08-978-217-7 (1-84) x US-09-967-768A-192 (1-1915)

```
Oy 1 AencysalaleuGluGluLeuArgLeuValPheGlyProLeuGlyAspGluLeuHisAla 20
Db 429 AATTGTGCTTGAGAGAGCTGCGTCTTGGCTTGGGCTTGAGGAGCACTCCATGCC 488
Oy 21 GlnLeuArgAspLeuThrSerSerSerSerAspGluLeuSerTrpIleIleGluLeuLeu 40
Db 489 CAGCTGCCAGAGCTCCTCCTCCAGAGAGGCCCTTAGACCCCGCTTTGACCAAGGCGCAGC 548
Oy 41 GluLysAspGlyMetAlaPheGlnGluAlaLeuAspProGlyProPheAspGlnGlySer 60
Db 549 GAGAGAGATGGCATGCGCTTCCAGAGAGGCCCTTAGACCCCGCTTTGACCAAGGCGCAGC 608
Oy 61 ProPheAlaGlnGluLeuLeuAspAspGlyGlnGlnAlaSerProTyrHisProGlySer 80
Db 609 CCCTTGGCCAGAGCTGCTGAGACGAGTCCAGCAAGCCCAACCCCGGCGAGC 668
Oy 81 CysGlyAlaGly 84
Db 669 TGTGGCGCAGGA 680
```

RESULT 11

US-10-025-380-1105

Sequence 1105, Application US/10025380

Publication No. US20020182191A1

GENERAL INFORMATION:

APPLICANT: Xu, Jianguo

APPLICANT: Lodes, Michael J.

APPLICANT: Secret, Heather

APPLICANT: Benson, Darin R.

APPLICANT: Meagher, Madeleine Joy

APPLICANT: Stolk, John A.

APPLICANT: Wang, Tongtong

APPLICANT: Jiang, Yugu

APPLICANT: Smith, Carole L.

APPLICANT: King, Gordon E.

APPLICANT: Wang, Aijun

APPLICANT: Clapper, Jonathan D.

APPLICANT: Skeiky, Yasir A. W.

APPLICANT: Fanger, Gary R.

APPLICANT: Vedvick, Thomas S.

APPLICANT: Carter, Darick

TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE

FILE REFERENCE: 210121.471C14

CURRENT APPLICATION NUMBER: US/10/025,380

CURRENT FILING DATE: 2001-12-19

NUMBER OF SEQ ID NOS: 1129

SOFTWARE: PasteSeq for Windows Version 4.0

SEQ ID NO 1105

LENGTH: 1917

TYPE: DNA

ORGANISM: Homo sapiens

US-10-025-380-1105

Alignment Scores:

Pred. No.: 6,42e-52 Length: 1917

Score: 445.00 Matches: 84

Percent Similarity: 100.00% Conservative: 0

Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: 9 Gaps: 0

US-08-978-217-7 (1-84) x US-10-025-380-1105 (1-1917)

QY 1 AencyAAlaLeuGluGluLeuAArgLeuValPheGlyProLeuGlyAAspGlnLeuHisAla 20  
DB 431 AATTGGCCCTTGAGAGAGCTGGCTGTGCTCTTGGCCCTCTGGGGAGCAACCTCCATGCC 490  
QY 21 GlnLeuAArgAspLeuThrSerSerSerSerAAspGlnLeuSerTrpIleIleGluLeu 40  
DB 491 CAGCTCGGAGACTCTCACTTCCAGCTCTTCTGATGAGCTCAGTTGATCATTTGAGCTGCTG 550  
QY 41 GlnLeuAAspGlyMetAlaPheGlnGluAlaLeuAAspProGlyProPheAAspGlnGlySer 60  
DB 551 GAGAGAGATGGAGCTGGCTTCCAGAGAGCCCTTACACCCAGGCTTTGACCGGGCAGC 610  
QY 61 PropheAlaGlnGluLeuLeuAAspAAspGlyGlnGlnAlaSerProTyHisProGlySer 80  
DB 611 CCCTTGGCCAGAGAGCTGCTGAGCGAGCGGTCAAGCAAGCCAGCCCTTACCAACCCGGCAGC 670  
QY 81 CySGlyAlaGly 84  
DB 671 TGTGGCGCAGGA 682

## RESULT 12

US-09-922-217-1105  
Sequence 1105, Application US/09922217

Patent No. US200200764141  
GENERAL INFORMATION:  
APPLICANT: Xu, Jiangchun  
APPLICANT: Lodes, Michael J.  
APPLICANT: Secrist, Heather  
APPLICANT: Benson, Darin R.  
APPLICANT: Meagher, Madeleine Joy  
APPLICANT: Stolk, John A.  
APPLICANT: Wang, Tonglong  
APPLICANT: Jiang, Yugu  
APPLICANT: Smith, Carole Lynn  
APPLICANT: King, Gordon E.  
APPLICANT: Wang, Aijun  
APPLICANT: Clapper, Jonathan D.  
TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE  
FILE REFERENCE: 210121, 471C13  
CURRENT APPLICATION NUMBER: US/09/922,217  
NUMBER OF SEQ ID NOS: 1124  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 1105  
LENGTH: 1917  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-922-217-1105

## Alignment Scores:

Pred. No.: 6,42e-52 Length: 1917  
Score: 445.00 Matches: 84  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: 10 Gaps: 0

US-08-978-217-7 (1-84) x US-09-922-217-1105 (1-1917)

QY 1 AencyAAlaLeuGluGluLeuAArgLeuValPheGlyProLeuGlyAAspGlnLeuHisAla 20  
DB 431 AATTGGCCCTTGAGAGAGCTGGCTGTGCTCTTGGCCCTCTGGGGAGCAACCTCCATGCC 490  
QY 21 GlnLeuAArgAspLeuThrSerSerSerSerAAspGlnLeuSerTrpIleIleGluLeu 40  
DB 491 CAGCTCGGAGAGCTCTCACTTCCAGCTCTTCTGATGAGCTCAGTTGATCATTTGAGCTGCTG 550

QY 41 GlnLeuAAspGlyMetAlaPheGlnGluAlaLeuAAspProGlyProPheAAspGlnGlySer 60  
DB 551 GAGAGAGATGGAGCTGGCTTCCAGAGAGCCCTTACACCCAGGCTTTGACCGGGCAGC 610

QY 61 PropheAlaGlnGluLeuLeuAAspAAspGlyGlnGlnAlaSerProTyHisProGlySer 80  
DB 611 CCCTTGGCCAGAGAGCTGCTGAGCGAGCGGTCAAGCAAGCCAGCCCTTACCAACCCGGCAGC 670

QY 81 CySGlyAlaGly 84  
DB 671 TGTGGCGCAGGA 682

## RESULT 13

US-09-925-301-207  
Sequence 207, Application US/09925301

Patent No. US20020052308A1  
GENERAL INFORMATION:  
APPLICANT: Rosen et al.  
TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies  
FILE REFERENCE: PA106  
CURRENT APPLICATION NUMBER: US/09/925,301  
CURRENT FILING DATE: 2001-08-10  
PRIOR APPLICATION NUMBER: PCT/US00/05882  
PRIOR FILING DATE: 2000-03-08  
PRIOR APPLICATION NUMBER: 60/124,270  
PRIOR FILING DATE: 1999-03-12  
NUMBER OF SEQ ID NOS: 1694  
SOFTWARE: Patent In Ver. 2.0  
SEQ ID NO 207  
LENGTH: 1996  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-925-301-207

## Alignment Scores:

Pred. No.: 6,77e-52 Length: 1996  
Score: 445.00 Matches: 84  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: 10 Gaps: 0

US-08-978-217-7 (1-84) x US-09-925-301-207 (1-1996)

QY 1 AencyAAlaLeuGluGluLeuAArgLeuValPheGlyProLeuGlyAAspGlnLeuHisAla 20  
DB 450 AATTGGCCCTTGAGAGAGCTGGCTGTGCTCTTGGCCCTCTGGGGAGCAACCTCCATGCC 509  
QY 21 GlnLeuAArgAspLeuThrSerSerSerSerAAspGlnLeuSerTrpIleIleGluLeu 40  
DB 510 CAGCTCGGAGAGCTCTCACTTCCAGCTCTTCTGATGAGCTCAGTTGATCATTTGAGCTGCTG 569  
QY 41 GlnLeuAAspGlyMetAlaPheGlnGluAlaLeuAAspProGlyProPheAAspGlnGlySer 60  
DB 570 GAGAGAGATGGAGCTGGCTTCCAGAGAGCCCTTACACCCAGGCTTTGACCGGGCAGC 629  
QY 61 PropheAlaGlnGluLeuLeuAAspAAspGlyGlnGlnAlaSerProTyHisProGlySer 80  
DB 630 CCCTTGGCCAGAGAGCTGCTGAGCGAGGTCAAGCAAGCCAGCCCTTACCAACCCGGCAGC 689  
QY 81 CySGlyAlaGly 84  
DB 690 TGTGGCGCAGGA 701

## RESULT 14

US-09-867-701-4818  
Sequence 4818, Application US/09867701

Patent No. US2002013237A1  
GENERAL INFORMATION:  
APPLICANT: Aglate, Paul A.  
APPLICANT: Jones, Robert  
APPLICANT: Harlocker, Susan L.

```

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; FILE OF INVENTION: AND DIAGNOSIS OF OVARIAN CANCER
; FILE REFERENCE: 210121.497
; CURRENT APPLICATION NUMBER: US/09/867,701
; CURRENT FILING DATE: 2001-05-29
; NUMBER OF SEQ ID NOS: 10912
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 4818
; LENGTH: 355
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-867-701-4818

```

## Alignment Scores:

```

Pred. No.: 4,57e-52 Length: 355
Score: 439.00 Matches: 83
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 98.65% Indels: 0
DB: 10 Gaps: 0

```

US-08-978-217-7 (1-84) x US-09-867-701-4818 (1-355)

```

Qy 1 AsnCysAlaLeuGluGluLeuArgLeuValPheGlyProLeuGlyAspGlnLeuHisAla 20
Db 107 AATTGTGCGCTTGAGAGAGCTGCTGCTGCTTGGGCTCTGGGGAGCAACCTCCATGCC 166

Qy 21 GlnLeuArgAspLeuThrSerSerSerSerAspGluLeuSerTrpIleIleGluLeuLeu 40
Db 167 CAGCTGCAGAGCTTCACTTCCAGCTCTTCTGATGAGCTCAGTTGGATCATGAGCTGCTG 226

Qy 41 GluLysAspGlyMetAlaPheGlnGlnAlaLeuAspProGlyProPheAspGlnGlySer 60
Db 227 GAGAAAGGATGGCATGCGCTTCCAGAGGCGCCCTAGACCCAGGGCCCTTGACAGGGCAGC 286

Qy 61 ProPheAlaGlnGluLeuLeuAspAspGlyGlnGlnAlaSerProGlyHisProGlySer 80
Db 287 CCCTTGGCCAGAGCTGCTGAGCAGCGTCCAGCAAGCCAGCCCTTACCAACCCCGGAGC 346

Qy 81 CysGlyAla 83
Db 347 TGTGGCGCA 355

```

## RESULT 15

```

US-09-998-598-1740/C
; Sequence 1740, Application US/09998598
; Patent No. US20020150922A1
; GENERAL INFORMATION:
; APPLICANT: Stolck, John A.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Chenault, Ruth A.
; APPLICANT: Mesgher, Madelein Joy
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.561
; CURRENT APPLICATION NUMBER: US/09/998,598
; CURRENT FILING DATE: 2001-11-16
; NUMBER OF SEQ ID NOS: 2606
; SOFTWARE: Corixa Invention Disclosure Database
; SEQ ID NO 1740
; LENGTH: 174
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-998-598-1740

```

## Alignment Scores:

```

Pred. No.: 5.65e-34 Length: 174
Score: 305.00 Matches: 58
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 68.54% Indels: 0
DB: 10 Gaps: 0

```

US-08-978-217-7 (1-84) x US-09-998-598-1740 (1-174)

```

Qy 22 LeuArgAspLeuThrSerSerSerSerAspGluLeuSerTrpIleIleGluLeuGln 41
Db 174 CTGGAGAGCTTCACTTCCAGCTCTTCTGATGAGCTCAGTTGGATCATGAGCTGCTGAG 115

Qy 42 LysAspGlyMetAlaPheGlnGlnAlaLeuAspProGlyProPheAspGlnGlySerPro 61
Db 114 AAGATGGCATGCGCTTCCAGAGGCGCCCTAGACCCAGGGCCCTTTGACCAAGGCAAGCCCC 55

Qy 62 PheAlaGlnGluLeuLeuAspAspGlyGlnGlnAlaSerProGlyHisProGly 79
Db 54 TTTGCCAGAGCTGCTGAGCAGCGTCCAGCAAGCCAGCCCTTACCAACCCCGGC 1

```

Search completed: March 16, 2003, 03:36:10  
Job time : 41.3444 secs

